

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **63013964 A**(43) Date of publication of application: **21.01.88**(51) Int. Cl. **F16J 1/08**(21) Application number: **61158920**(22) Date of filing: **07.07.86**(71) Applicant: **NGK SPARK PLUG CO LTD**(72) Inventor: **KOJIMA TAKIO
KAWAMURA MITSUYOSHI
AKAO SHIGEAKI**

(54) LUBRICATION MECHANISM FOR PISTON PIN AND SNAP RING

(57) Abstract:

PURPOSE: To make it possible to form a piston pin from a ceramic, by providing a pin boss so as to allow a lubricating oil in a cylinder or a piston to flow toward a snap ring retaining groove.

CONSTITUTION: In the operation of a piston 11, a lubricating oil scraped by an oil scraper ring 16b is allowed to flow from a ring groove 17b through an oil passage 18 passing through a pin boss 12 into a snap ring retaining groove 14. The oil is joined with a lubricating oil flowing along a ceramic piston pin 13 formed of a silicon nitride sintered material or the like, thereby lubricating a contact portion between a snap ring 15 and the piston pin 13. Accordingly, although the piston pin is formed of a ceramic, an inexpensive conventional snap ring may be used. Additionally, the wear of the pin boss may be reduced.

COPYRIGHT: (C)1988,JPO&Japio

